



Attorney's Docket No.: 17106-024001 / 1613

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edwin Madison, et. al.  
Serial No. : 10/099,700  
Filed : March 13, 2002  
Conf. No. : 4309  
Title : NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE  
PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED  
THEREON

Art Unit : 1652  
Examiner : William W. Moore  
Cust. No. : 20985

**Mail Stop RCE**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§1.97-1.98**

Dear Sir:

Since this Supplemental Information Disclosure Statement is filed with the Request for Continued Examination and before the receipt of a first Office Action on the merits of the Request for Continued Examination for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (1 page) and references are provided herewith.

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I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Stephanie L. Seidman

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The cited documents, listed on the Forms PTO-1449 and provided herewith, are in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,

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Stephanie Seidman  
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Attorney Docket No. 17106-024001 / 1613

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17106-024001/1613	Application No. 10/099,700
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Edwin Madison, et. al.	
		Filing Date March 13, 2002	Group Art Unit 1652

### U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate

### Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AA	Altschul et al., "Basic Local Alignment Search Tool," Journal of Molecular Biology. 215: 403-410 (1990)
	AB	Atwell et al., "Selection for improved subtiligases by phage display," Proceedings of the National Academy of Sciences USA 96:9497-9502 (1999)
	AC	Bachovchin et al., "Catalytic mechanism of serine proteases: Reexamination of the pH dependence of the histidyl <sup>1</sup> J <sub>13C2-H</sub> coupling constant in the catalytic triad of α-lytic protease," Proceedings of the National Academy of Sciences 78:7323-7326 (1981)
	AD	Carter et al., "Dissecting the catalytic triad of a serine protease," Nature 332:564-568 (1988)
	AE	Cheah et al., "Site-directed Mutagenesis Suggests Close Functional Relationship between a Human Rhinovirus 3C Cysteine Protease and Cellular Trypsin-like Serine Proteases," Journal of Biological Chemistry 265:7180-7187 (1990).
	AF	Craik et al., "The Catalytic Role of the Active Site Aspartic Acid in Serine Proteases," Science 237:909-913 (1987).
	AG	Devereux et al., "A comprehensive set of sequence analysis programs for the VAX", Nucleic Acids Research 12(1):387-395 (1984).
	AH	Pearson et al., "Improved Tools for Biological Sequence Comparison," Proceedings of the National Academy of Sciences USA 85:2444-2448 (1988)
	AI	Pearson et al., "Identifying distantly related protein sequences", Cabios Invited Review 13(4):325-332 (1997).
	AJ	Sprang et al., "The Three-Dimensional Structure of Asn <sup>102</sup> Mutant of Trypsin: Role of Asp <sup>102</sup> in Serine Protease Catalysis," Science 237:905-909 (1987)
	AK	Wells et al., "Designing substrate specificity by protein engineering of electrostatic interactions," Proceedings of the National Academy of Sciences 84:1219-1223 (1987)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	